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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/813,266	03/31/2004	Hung-Ming Chien	58268.00356	5386
32294 7590 08/19/2008 SQUIRE, SANDERS & DEMPSEY L.L.P. 8000 TOWERS CRESCENT DRIVE 14TH FLOOR VIENNA, VA 22182-6212			EXAMINER LE, NHAN T	
			ART UNIT 2618	PAPER NUMBER
			MAIL DATE 08/19/2008	DELIVERY MODE PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

### Office Action Summary

**Application No.**

10/813,266

**Applicant(s)**

CHIEN, HUNG-MING

**Examiner**

NHAN T. LE

**Art Unit**

2618

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 30 April 2008.  
2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.  
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-3 and 6-8 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.  
6) ☒ Claim(s) 1-3, 6-8 is/are rejected.  
7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.  
8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.  
10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)  
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3) ☐ Information Disclosure Statement(s) (PTO/SG/US)  
Paper No(s)/Mail Date \_\_\_\_\_  
4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_  
5) ☐ Notice of Informal Patent Application  
6) ☐ Other: \_\_\_\_\_

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 1, 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ishii (US 20040090215) in view of Hosotani et al (US 20020181252).

As to claim 1, Ishii teaches a charge pump circuit to supply current to a controlled oscillating circuit the charge pump circuit comprising: a first switch (see fig. 1, number 2, paragraphs 0067-0069) comprising a first state, said first switch coupled to a gate of an output diode (see fig. 1, number 3, paragraphs 0067-0069), a second switch (see fig. 1, number 5, paragraphs 0067-0069) comprising a second state, the second switch coupled to a source of the output diode, wherein the second switch provides a charge up current to the output diode when the second state comprises an ON state (see paragraphs 0067-0069). Ishii fails to teach wherein the second switch is in opposite state with the first switch, wherein the first switch is coupled to a capacitance configured to hold a bias when the second switch comprises the ON state. Hosotani et al teaches wherein the second switch is in opposite state with the first switch, wherein the first switch is coupled to a capacitance configured to hold a bias when the second switch comprises the ON state (see paragraphs 0008, 0009). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide

the teaching of Hosotani into the system of Ishii in order to provide a self-excited oscillation type switching power source.

As to claim 6, the combination of Ishii and Hosotani teaches wherein the first switch disconnects the gate of the output diode when said first state comprises an OFF state (see Ishii paragraphs 0067-0069).

2. Claims 2, 3, 7, 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ishii (US 20040090215) in view of Hosotani et al (US 20020181252) further in view of Kinbara (US 6,259,714).

As to claims 2, 3, the combination of Ishii and Hosotani teaches wherein the circuit comprises the first and the second switches, diode. The combination of Ishii and Hosotani fails to teach wherein the switches comprises a diode having a first and a second semiconductor material. Kinbara teaches wherein the diode are in the forms of semiconductor (see col. 13, lines 8-12). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teaching of Kinbara into the system of Ishii and Hosotani in order to reduce the size of the device.

As to claims 7, 8, the combination of Ishii and Hosotani fails to teach wherein the switches comprises an n-channel and p-channel metal oxide semiconductor. Kinbara teaches wherein the switches are in the form of the semiconductor (see col. 13, lines 8-12). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teaching of Kinbara into the system of Ishii and Hosotani in order to reduce the size of the device.

***Response to Arguments***

3. Applicant's arguments with respect to claims 1-3, 6-8 have been considered but are moot in view of the new ground(s) of rejection.

***Conclusion***

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nhan T. Le whose telephone number is 571-272-7892. The examiner can normally be reached on 08:00-05:00 (Mon-Fri).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban can be reached on 571-272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Nguyen Vo/  
Primary Examiner, Art Unit 2618  
08/16/2008

/Nhan T Le/  
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Nhan Le